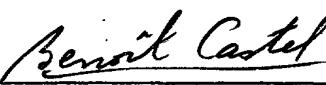


U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE <small>(REV. 1-98)</small>		ATTORNEY'S DOCKET NUMBER 0512-1015
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 CFR 1.5 <b>10/049600</b>
INTERNATIONAL APPLICATION NO. PCT/FR00/02311	INTERNATIONAL FILING DATE August 11, 2000	PRIORITY DATE CLAIMED August 16, 1999
TITLE OF INVENTION DEVICE FOR TRANSMITTING COMPUTER DATA BETWEEN AN ORIGINATING STATION AND A SERVICE PROVIDER AND METHOD FOR ITS USE		
APPLICANT(S) FOR DO/EO/US <u>Philippe VAYSSIE, Jean-Jacques MONFORT and Francois GRANGER</u>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).</p> <p>4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))           <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> has been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ul> </p> <p>6. <input checked="" type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> have been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ul> </p> <p>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> A translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
Items 11. to 16. below concern document(s) or information included:		
<p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment.           <ul style="list-style-type: none"> <li><input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</li> </ul> </p> <p>14. <input type="checkbox"/> A substitute specification.</p> <p>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>16. <input checked="" type="checkbox"/> Other items or information:           <ul style="list-style-type: none"> <li>International Preliminary Examination Report.</li> <li>Application Data Sheet.</li> <li>Abstract.</li> <li>Search Report.</li> </ul> </p>		

U.S. APPLICATION NO. PCT/FR00/02311		INTERNATIONAL APPLICATION NO. PCT/FR00/02311	ATTORNEYS DOCKET NUMBER 0512-1015
107049600		CALCULATIONS PTO USE ONLY	
17. <input checked="" type="checkbox"/> The following fees are submitted:			
BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):			
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... \$1,040.			
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... 890.			
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... 740.			
International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... 710.			
International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... 100.			
ENTER APPROPRIATE BASIC FEE AMOUNT =		\$ 890	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	10 - 20 =	0	x \$ 18. \$ 0
Independent claims	1 - 3 =	0	x 84. \$ 0
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ 280. \$	
TOTAL OF ABOVE CALCULATIONS =		\$ 890	
Reduction of 1/2 for small entity		\$	
SUBTOTAL =		\$ 890	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$	
TOTAL NATIONAL FEE =		\$ 890	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		\$ 40	
TOTAL FEES ENCLOSED =		\$ 930	
		Amount to be refunded:	\$
		charged:	\$
<p>a. <input checked="" type="checkbox"/> A check in the amount of \$ 930 to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required by 37 CFR 1.16 and 1.17, or credit any overpayment to Deposit Account No. 25-0120. A duplicate copy of this sheet is enclosed.</p>			
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.			
February 14, 2002			
SEND ALL CORRESPONDENCE TO:			
Young & Thompson 745 South 23rd Street 2nd Floor Arlington, VA 22202 (703) 521-2297		CUSTOMER NO. 000466	SIGNATURE
		Benoit Castel	
		NAME	
		35,041	
		REGISTRATION NUMBER	

PATENT  
0512-1015

**IN THE U.S. PATENT AND TRADEMARK OFFICE**

In re application of: Philippe VAYSSIE et al.

Appl. No.: NEW Group:

Filed: February 14, 2002 Examiner:

For: DEVICE FOR TRANSMITTING COMPUTER DATA  
BETWEEN AN ORIGINATING STATION AND A  
SERVICE PROVIDER AND METHOD FOR ITS USE

**PRELIMINARY AMENDMENT**

Assistant Commissioner for Patents  
Washington, DC 20231

February 14, 2002

Sir:

The following preliminary amendments and remarks are respectfully submitted in connection with the above-identified application.

**IN THE ABSTRACT OF THE DISCLOSURE:**

Please add the Abstract of the Disclosure on a separate sheet attached hereto.

**IN THE SPECIFICATION:**

Please add the following paragraph before the paragraph beginning on page 1, line 14:

--The document EP-A-0 782 068 describes a system for remote printing from a user computer. The user must load his

personal computer with a program generating the instructions required for printing. The program is available only for platforms for which it has been designed, namely IBM-PC® compatible and Windows 95®. The generation of the printing data both as regards the document description language and the processing and finishing instructions is performed on the user computer, as a function of the machine for producing the printed document, and is therefore not readily exportable.--

IN THE CLAIMS:

Please cancel claims 1-8 without prejudice or disclaimer of the subject matter contained therein.

Please add the following claims:

--9. Device for transmitting computer data between at least one originating station (5, 6, 7) of an originator (1) and a service provider (3), characterized in that the originator (1) is associated to a processing server (2) comprising an interface (14) for communication with said at least one originating station (5, 6, 7) for receiving describing data of documents of the originating stations (5, 6, 7), whereas the processing server (2) is able to transform the received describing data of the documents into an exchange document consisting in data having a standardized format, which are intended to a production processing by the service provider (3), the service provider (3) comprising a reception server (4) comprising an interface (25)

for communication with a communication interface (15) of the processing server (2) via transmission means (16) for the transmission of the exchange document consisting in data in the standardized format from the processing server (2) to the reception server (4), the reception server (4) comprising an interface (26) for communication with the production machines (17, 18, 19) of the service provider (3) which are able to be driven by the reception server (4) for the production processing of the exchange document consisting in data in the standardized format received by the latter.

--10. Device for transmitting computer data according to claim 9, characterized in that the processing server (2) is able to generate (104), based on the documents describing data of the originating stations (5, 6, 7) a readback document consisting in data in said standardized format and a docket accompanying the exchange document, said accompanying docket containing processing options, which can be modified by the originator (1), the processing server (2) being able to send (108) to the originator (1) the generated readback document and the generated accompanying docket, the originator (1) being able to visualize (114) said readback document and to modify (115) the values of the options of the accompanying docket.

--11. Device for transmitting computer data according to claim 10, characterized in that the processing server (2) is such that it transmits said exchange document

consisting in data having the standardized format to the reception server (4) only if a docket accompanying the readback document is sent back (116) by said at least one originating station (5, 6, 7) to said processing server (2).

--12. Device for transmitting computer data according to claim 11, characterized in that the exchange document consisting in data having a standardized format is generated by the processing server (2), based on the documents description data of the originating stations (5, 6, 7), as a function of the values of the processing options of the accompanying docket sent back by the at least one originating station (5, 6, 7) to said processing server (2).

--13. Device for transmitting computer data according to claim 12, characterized in that the processing server (2) comprises an information base enabling the generation of said accompanying docket by the processing server (2), by analysis by the latter of the documents description data of the originating stations (5, 6, 7).

--14. Device for transmitting computer data according to claim 13, characterized in that the processing server (2) is able to update (120) its information base, based on the accompanying docket which is sent back to it by said at least one originating station (5, 6, 7).

--15. Device for transmitting computer data according to claim 10, characterized in that the processing

server (2) is able to send with the exchange document the accompanying docket to the reception server (4), the reception server (4) being able to drive the production processing of said exchange document, based on said accompanying docket.

--16. Device for transmitting computer data according to claim 15, characterized in that said at least one originating station (5, 6, 7) is able to introduce in said accompanying docket an electronic signature, which can be verified (203) by the reception server (4) for driving said production processing of said exchange document.

--17. Device for transmitting computer data according to claim 9, characterized in that the reception server (4) comprises a local information base enabling the registration (208) of the fact that a production processing of said exchange document is generated by the production machines (17, 18, 19) of the service provider (3), the reception server (4) being able to send back (209, 210) to said at least one originating station (5, 6, 7) a message signalling that a work requested is done.

--18. Method of transmitting computer data with the aid of the device according to claim 9, characterized in that it consists in issuing documents description data from an originating station (5, 6, 7) to the processing server (2), in analyzing (103) the documents description data by the processing server (2) so as to extract therefrom the values of the processing options and generate an accompanying docket presenting

the explicit values of the processing options, in transforming (104) said documents description data into a readback document consisting in data in the standardized format, in sending back said generated readback document and accompanying docket to the originating station (5, 6, 7), in controlling (107) on the originating station (5, 6, 7) the readback document, in sending back from said originating station (5, 6, 7) to said processing server (2) said accompanying docket for enabling to generate (121) by the processing server (2) an exchange document consisting in data having the standardized format intended to a production processing by the service provider (3) and to transmit this exchange document and the accompanying docket to the reception server (4) of the service provider (3), and in effecting a control of the production machines (17, 18, 19) of the service provider (3) by the reception server (4) for the production processing of the exchange document as a function of the accompanying docket.--

REMARKS

Claims 9-18 are pending in the present application.  
Claims 1-8 have been cancelled and claims 9-18 have been added.  
Entry of the above amendments is earnestly solicited.  
An early and favorable first action on the merits is earnestly requested.

Should there be any matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned at the telephone number listed below.

The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17.

Respectfully submitted,

YOUNG & THOMPSON

*Benoit Castel*

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Benoit Castel, Reg. No. 35,041  
745 South 23<sup>rd</sup> Street  
Arlington, VA 22202  
Telephone (703) 521-2297

BC/lmt  
Attachments

ABSTRACT OF THE DISCLOSURE

A computer data transmission between at least an originator's (1) originating station (5,6,7) and a service provider (3), the at least one originating station (5,6,7) and the service provider operating under different formats. The invention is characterised in that between the at least one creating station (5,6,7) and the service provider (3), is interposed a processing server (2) ensuring the transcription of documents received from the at least one originating station (5,6,7) in a format compatible with that of the service provider (3), the latter comprising a reception server (4) connected with the processing server (2) and with executing elements (17,18,19) of the service provider whereto the processing server (2) sends the transcribed documents.

4/p.v

Device for transmitting computer data between an  
originating station and a service provider and method  
for its use

5 The present invention relates to a system for exchanging computer data between an originator of documents and a provider of digital productions.

10 The term document is understood to mean any electronic file representing in coded form a document intended in its final form for viewing in all its forms by a human being.

15 The main problem encountered during the transmission of computer documents relates to the work formats of the various stations involved in this transmission. Previous techniques of data exchange allow, for example, a document originator to procure documents created previously in a certain format from a data bank placed at his disposal by a computer service provider and then to modify these documents at his convenience by virtue of appropriate software.

25 A method is already known which makes it possible to alter the resolution of the document which one can view, depending on requirements, in high or low resolution.

30 A method is also known which makes it possible to assemble various documents originating under various standards into a single standard.

35 A significant drawback of the known method resides in the fact that the originator cannot get access to the services of the provider with a document which he may have originated entirely in a different format from that used by the provider.

The invention therefore aims to transfer documents originating in diverse formats from originators grouped together within a body to a service provider working in 5 a single format different from the previous ones.

Its subject is therefore a device for transmitting computer data between at least one originating station of an originator and a service provider, the said at 10 least one originating station and the said service provider working under different formats, characterized in that between the said at least one originating station and the said service provider, is interposed a processing server effecting the transcription of the 15 documents received from the said at least one originating station into a format compatible with that of the said service provider, the latter comprising a reception server linked on the one hand with the said processing server and on the other hand with means of 20 execution of the said service provider to which the said processing server sends the documents which have formed the subject of the transcription.

According to other characteristics:

- 25 - the said processing server and the said at least one originating station communicate by means of a readback document and a docket accompanying the latter,
- the said processing server transmits the final document to the said service provider only if the 30 docket accompanying the readback document is sent back by the said at least one originating station to the said processing server,
- the said docket accompanying the readback document sent back by the said processing server to the said at 35 least one originating station allows an originator situated at the said at least one originating station, to modify the accompanying docket,

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- the said docket accompanying the readback document constitutes for the originator situated at the said at least one originating station, a means of access to diverse services such as confidentiality of the exchange guaranteed by an electronic signature,
- the said accompanying docket is sent with the final document rewritten in the format employed by the said service provider and allowing the service provider to ascertain the wishes of the originator situated at the said at least one originating station,
- the said service provider sends back a message to the originator situated at the said at least one originating station, signalling to him that the work requested is done.

15

The subject of the invention is also a method of transmitting computer data with the aid of the device defined above, characterized in that it consists in issuing a document in any format, from an originating station, in analysing the document on the processing server so as to extract therefrom the values of the processing options, in transforming the said document into a readback document in the standardized format, in generating a docket accompanying the readback document, presenting the explicit values of the processing options, in monitoring the readback document associated with the accompanying docket and in generating an exchange document in the standardized format, in transferring the exchange document and its accompanying docket to the service provider, and in effecting the automatic or manual control of the machines of the service provider by the reception server.

35 The invention will be better understood on reading the description which follows, given merely by way of example and while referring to the appended drawings, in which:

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- Fig. 1 is the basic diagram of the device according to the invention;
- Figs. 2 and 3 show flow charts showing the manner of operation of the device of the invention; and
- 5 - Fig. 4 shows a flow chart involved in the reception server.

The data transmission device represented in Figure 1 comprises an originator 1 with which is associated a processing server 2 and, installed at the premises of a service provider 3, a reception server 4.

10 The originator 1 includes one or more originating stations 5, 6, 7 which are linked to the processing server 2 by buses 8, 9, 10 and 11.

15 The processing server 2 includes a central processing unit 12, a monitoring screen 13, an interface 14 for communication with the originating station or stations 5, 6 and 7 by way of the buses 8, 9, 10 and 11 and an interface 15 for communication by way of a bus 16 with the reception server 4 installed at the premises of the provider 3.

20 25 In its memory (not represented), the central processing unit 12 of the processing server 2 contains software for communicating with the originating station or stations 5, 6, 7 and with the reception server 4, but it also contains software for processing the documents received from the originating station or stations 5, 6, 7.

30 35 The provider 3 comprises in addition to the reception server 4, processing machines, such as a printing machine 17, an archiving device 18, an Internet publication device 19, which are linked to the reception server 4 by buses 20, 21, 22 respectively.

- 5 -

The reception server 4 includes a central processing unit 23, a monitoring screen 24, an interface 25 for communication with the processing server by way of the bus 16 and an interface 26 for communication with the machines 17, 18 and 19.

10 The reception server 4 can furthermore communicate with the originating station or stations 5, 6 by way of a bus 16 or 27.

In its memory space (not represented), the central processing unit 23 of the reception server 4 comprises software for communication with the local network, with the processing machines 17, 18, 19, with the processing server 2 and with the originating station or stations 5, 6, 7 as well as software making it possible to carry out the desired processing operations.

20 The function of the processing server 2 is to:

- receive the data describing the documents of the workstations via local or remote means of transmission,
- analyse the data received and extract therefrom all the existing information relating to the processing operations to be applied to the data and the information relating to the originator,
- transform the data into a standardized format,
- send back to the originator a readback document in the standardized format and an accompanying docket for verification.

A readback document is a file in the standardized format, intended mainly for readback on the screen. During its generation, the compactness options are favoured. It may in particular be of a lower resolution than the exchange resolution required for final production.

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An accompanying docket is a file containing the various processing options and their predefined or preselected values. The options available can be parameterized by  
5 the provider as a function of his processing means. The values of the options can be modified by the originator during the readback phase.

10 The originator views the document in the standardized format so as to verify that it corresponds to his request. The accompanying docket presents all the options available as well as the values of the options already selected, or default values in the converse case. The originator can make modifications to the  
15 values of the options selected. He can also add comments. This accompanying docket can be used as order docket. It can be signed electronically if the necessary options are installed,

- receive from the originator the accompanying docket possibly modified, annotated and commented.  
20 These operations can be managed by electronic mail, by Web server or other means of communication, which here are termed buses 8, 9, 10, 11,

- generate an exchange document in the standardized format (as a function of the values of the options of  
25 the accompanying docket).

An exchange document is a file in the standardized format intended for production processing by a provider.

30 The exchange document and the readback document must be as similar as possible.

- transmit the exchange document and the accompanying docket to the provider 3 via local or remote means of transmission, which here is termed bus  
35 16,

- maintain a detailed program history of the processing performed,

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- allow the intervention of an administrator,
- allow electronic signature,
- allow encryption of the data.

5 The function of the reception server 23 is to:

- receive the exchange document and the accompanying docket,
- allow validation of the electronic signature,
- allow decryption of the data,
- 10 - automatically transmit the exchange document to the production machines 20, 21, 22 of the provider 3 if possible (if the accompanying docket is not ambiguous),
- allow the human operators of the provider 3 to intervene on the options intended for the production
- 15 machines 20, 21, 22,
- maintain a detailed program history of the processing performed,
- make it possible to export the data of the accompanying docket with a view to the invoicing of the
- 20 service provider.

The manner of operation of the device of Figure 1 will now be described with reference to Figures 2 and 3.

25 In the course of a step 101, the originator sends to the processing server 2, over the bus 10, a stream of data describing the documents by means of a driver developed by the Applicant and adapted to the requirements of the originator and of the provider. The  
30 description data are transported by the local network. Use may be made, for example, of a "PostScript" printing driver and of a PPD description file developed by the Applicant.

35 On reception in the course of step 102 of the description data for the documents, the processing server 2 instigates on the one hand, step 103 for

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analysing the documents received and on the other hand, step 104 for generating the document for readback in the standardized format. The analysis step 103 makes it possible to extract information relating to the options selected allowing the updating in the course of step 105 of the information base of the processing server 2 which will then generate in the course of step 106, a docket accompanying the readback document.

- 5        10      In parallel with this, once step 104 has terminated, a test 107 is performed to verify the proper running of the procedure. In case of success, the two documents originating from steps 104 and 106 are placed on standby in step 109 and sent back to the originator in 15      the course of step 108, via the bus 8.

In case of failure, an error message is sent back to the originator in step 110 via the bus 9, and the files are destroyed in the course of step 112.

- 20        In the first case, on reception in the course of step 113 of the "batch" composed of the readback document and of the accompanying docket, the originator begins by visually verifying the readback document in step 25      114. In the course of step 115, he may then possibly modify the options adopted, add comments, affix his electronic signature, place an order with the service provider 3, request the encryption of the document during transmission to the provider 3.

- 30        Then in step 116, he sends the accompanying docket back to the processing server 2 via the bus 11.

- 35        In the second case, in step 111 the originator receives an error message as well as explanations and information regarding the error.

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The return of the accompanying docket to the processing server 2 in step 117 and the operations which follow are described in Figure 3.

- 5 The processing server 2 begins by analysing the accompanying docket in the course of step 118. This is done in the form of a test in step 119. If this test is positive, that is to say if the docket has been modified, the server firstly updates its information base in the course of step 120, then, in both cases, generates in step 121 the final document in the standardized format, which he transmits in step 122 to the provider via the bus 16. This operation is accompanied by the sending in step 123 of a service message 124 to the originator via the bus 27.

10  
15  
20 The processing server 2 maintains the program history of all the previous operations, it can be monitored by an operator by means of the monitoring station 13 (Fig. 1).

- 25 Consideration is now given to Figure 4 where the manner of operation of the reception server 4 is detailed. On reception of the accompanying docket and of the final document in step 201, the server 4 analyses the accompanying docket in step 202 and records the information released in its local information base in step 203. It verifies, as appropriate, the signature and decrypts the document if necessary. In step 204 it will then test whether it is possible to perform direct processing of the task requested.

30  
35 If this is not possible, in step 205 the server 4 alerts the human operator situated at the monitoring station 24 (Fig. 1), who intervenes at step 206. In both cases, in step 207 it transmits the document to the relevant peripheral 17, 18 or 19, via one of the

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buses 20, 21 or 22 respectively, and in step 208 records the work performed in its local information base, then in steps 209 and 210 sends back a service message to the originator via the bus 27 for invoicing 5 and so as to inform same that the work requested is completed.

The invention, as presented hereinabove, allows, on the one hand the originator, to retain his work tools without having to adapt to the provider who for his part has his work simplified since it requires just one standard and renders the data processing process almost 10 automatic.

15 This invention also makes it possible to optimize the transmission times from one station to another while guaranteeing the security of the transfer which remains confidential and which incurs no risk of corrupting the document.

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CLAIMS

1. Device for transmitting computer data between at least one originating station (5, 6, 7) of an originator (1) and a service provider (3), the said at least one originating station (5, 6, 7) and the said service provider (3) working under different formats, characterized in that between the said at least one originating station (5, 6, 7) and the said service provider (3), is interposed a processing server (2) effecting the transcription (121) of the documents received from the said at least one originating station (5, 6, 7) into a format compatible with that of the said service provider (3), the latter comprising a reception server (4) linked on the one hand with the said processing server (2) and on the other hand with means of execution (17, 18, 19) of the said service provider to which the said processing server (2) sends the documents which have formed the subject of the transcription.

2. Device for transmitting computer data according to Claim 1, characterized in that the said processing server (2) and the said at least one originating station (5, 6, 7) communicate by means of a readback document and a docket (108) accompanying the latter.

3. Device for transmitting computer data according to one of Claims 1 and 2, characterized in that the said processing server (2) transmits (122) the final document to the said service provider (3) only if the docket accompanying the readback document is sent back (116) by the said at least one originating station (5, 6, 7) to the said processing server (2).

35

4. Device for transmitting computer data according to one of Claims 1 to 3, characterized in that the said

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docket accompanying the readback document sent back by the said processing server (2) to the said at least one originating station (5, 6, 7) allows an originator situated at the said at least one originating station 5 (5, 6, 7), to modify (115) the accompanying docket.

5. Device for transmitting computer data according to the preceding claims, characterized in that the said docket accompanying the readback document constitutes 10 for the originator situated at the said at least one originating station (5, 6, 7), a means of access to diverse services such as confidentiality of the exchange guaranteed by an electronic signature.

15 6. Device for processing computer data according to one of the preceding claims, characterized in that the said accompanying docket is sent (122) with the final document rewritten in the format employed by the said service provider (3) and allowing the service provider 20 (3) to ascertain the wishes of the originator situated at the said at least one originating station (5, 6, 7).

25 7. Device for transmitting computer data, characterized in that the said service provider (3) sends back a message to the originator situated at the said at least one originating station (5, 6, 7), 25 signalling to him that the work requested is done.

30 8. Method of transmitting computer data with the aid of the device according to one of Claims 1 to 7, characterized in that it consists in issuing a document in any format, from an originating station (5, 6, 7), 35 in analysing (103) the document on the processing server (2) so as to extract therefrom the values of the processing options, in transforming (104) the said document into a readback document in the standardized format, in generating a docket accompanying the

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readback document, presenting the explicit values of the processing options, in monitoring (107) the readback document associated with the accompanying docket and in generating an exchange document in the 5 standardized format, in transferring the exchange document and its accompanying docket to the service provider, and in effecting the automatic or manual control of the machines (17, 18, 19) of the service provider by the reception server (4).

CONFIDENTIAL - ATTORNEY'S EYES ONLY

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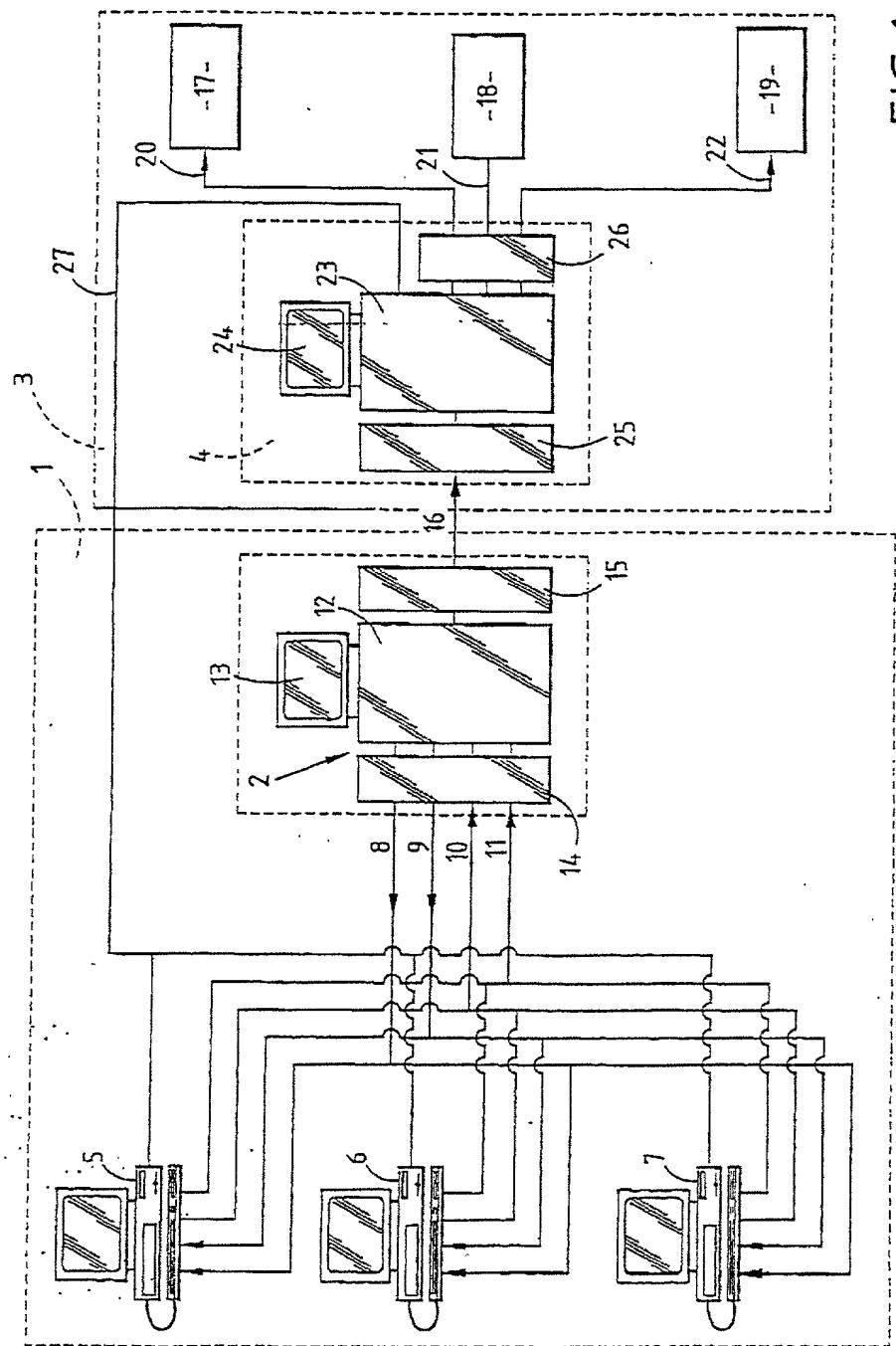


FIG.1

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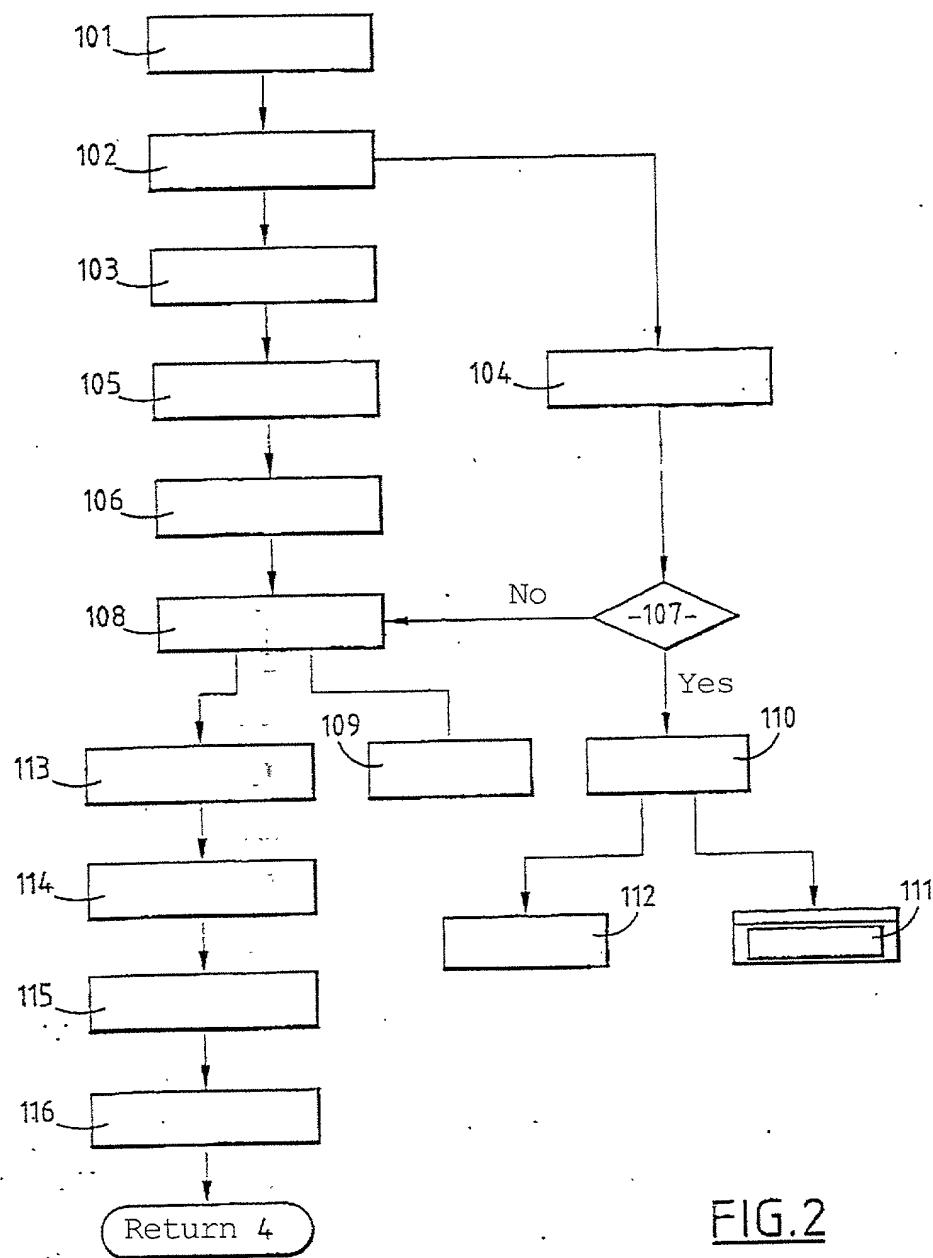
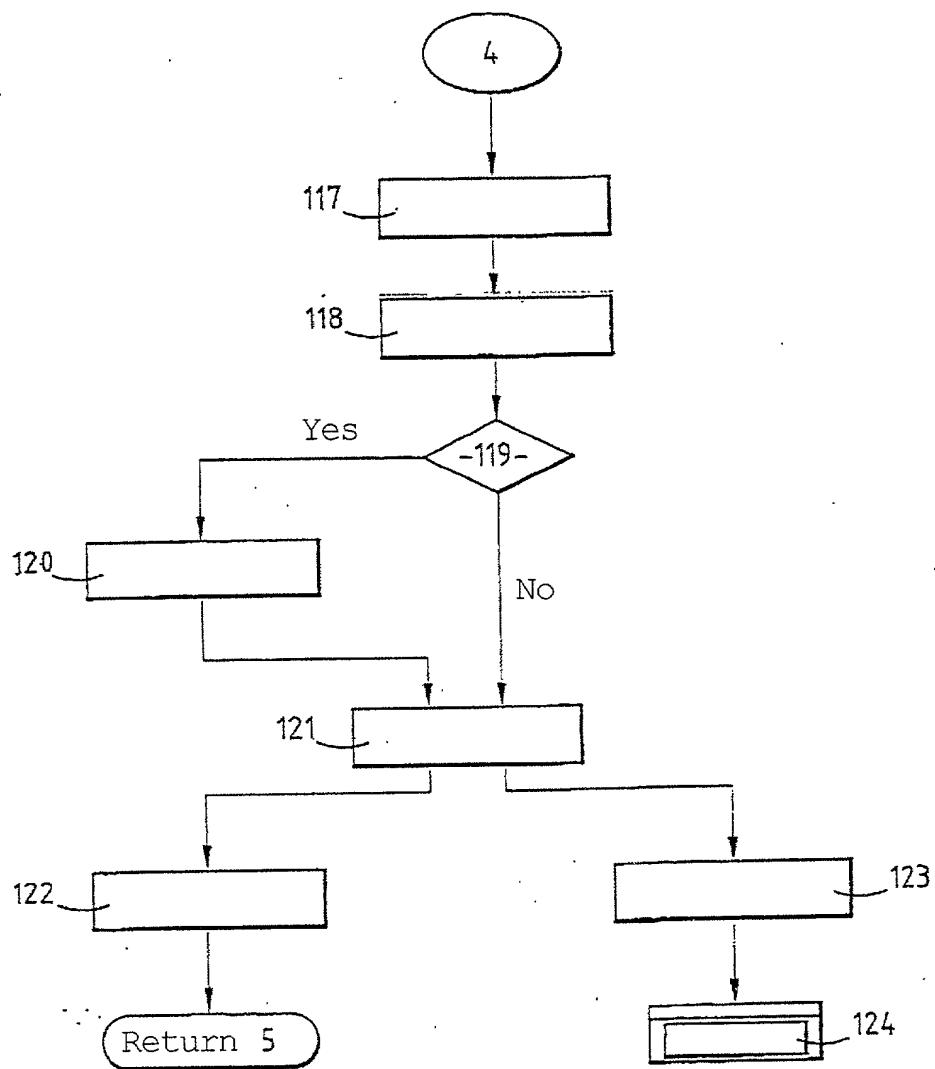


FIG.2

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FIG.3

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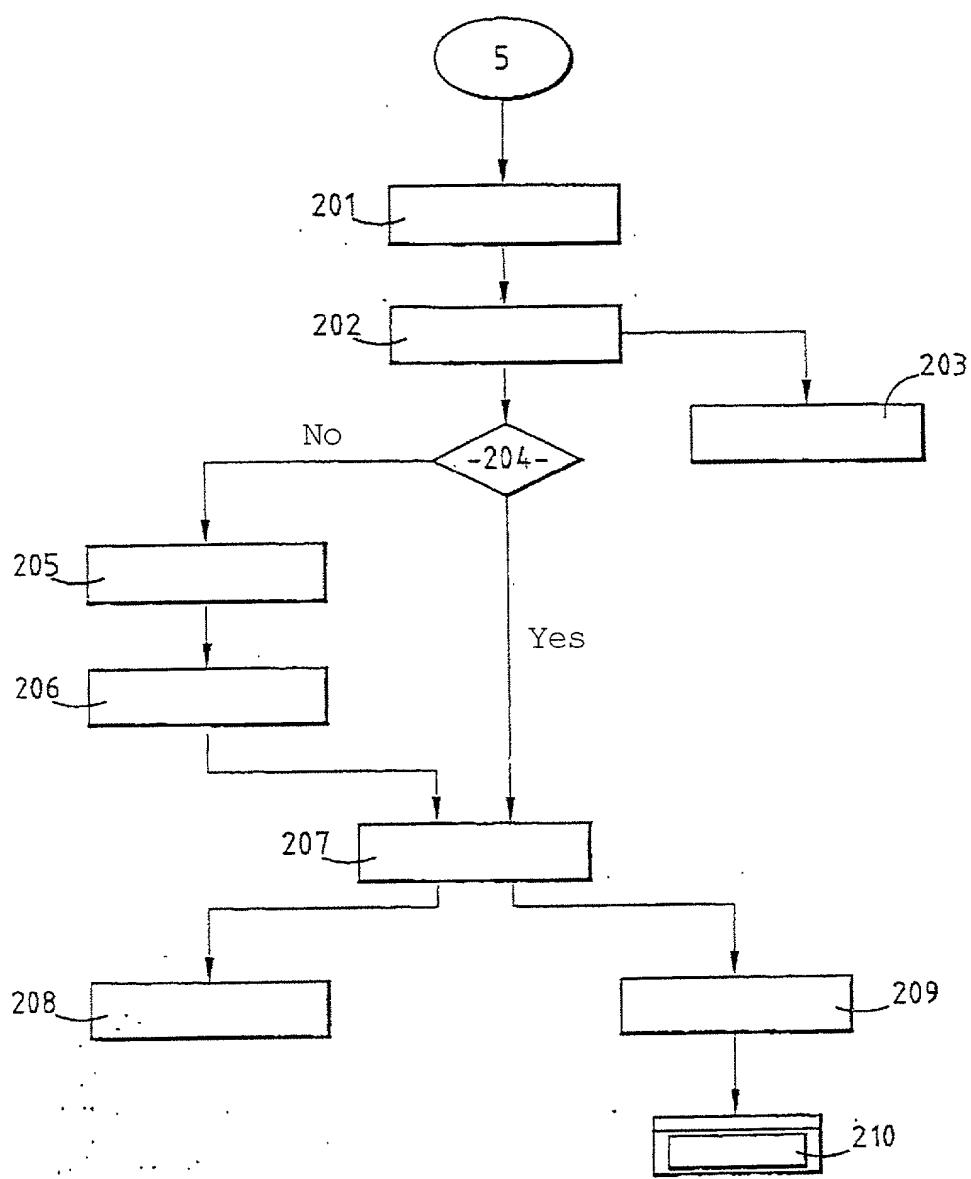


FIG.4

Ref. \_\_\_\_\_

**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Computer data transmission between an originating station and a service provider and method for using same

the specification of which: *(check one)*

**REGULAR OR DESIGN APPLICATION**

is attached hereto.

was filed on \_\_\_\_\_ as application Serial No. \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

**PCT FILED APPLICATION ENTERING NATIONAL STAGE**

was described and claimed in International application No. PCT/FR00/02311 filed on 11.08.2000 and as amended on \_\_\_\_\_ (if any).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

**PRIORITY CLAIM**

I hereby claim foreign priority benefits under 35 USC 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

**PRIOR FOREIGN APPLICATION(S)**

Country	Application Number	Date of Filing (day, month, year)	Priority Claimed
FRANCE	99 10525	16.08.1999	

*(Complete this part only if this is a continuing application.)*

I hereby claim the benefit under 35 USC 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 USC 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

PCT/FR00/02311

11.08.2000

(Application Serial No.)

(Filing Date)

(Status—patented, pending, abandoned)

## POWER OF ATTORNEY

The undersigned hereby authorizes the U.S. attorney or agent named herein to accept and follow instructions from \_\_\_\_\_ as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney or agent and the undersigned. In the event of a change in the persons from whom instructions may be taken, the U.S. attorney or agent named herein will be so notified by the undersigned.

As a named inventor, I hereby appoint the registered patent attorneys represented by Customer No. 000466 to prosecute this application and transact all business in the Patent and Trademark Office connected therewith, including: Robert J. PATCH, Reg. No. 17,355, Andrew J. PATCH, Reg. No. 32,925, Robert F. HARGEST, Reg. No. 25,590, Benoît CASTEL, Reg. No. 35,041, Eric JENSEN, Reg. No. 37,855, Thomas W. PERKINS, Reg. No. 33,027, and Roland E. LONG, Jr., Reg. No. 41,949.

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745 South 23rd Street,  
Arlington, Virginia 22202



00466

PATENT TRADEMARK OFFICE

Address all telephone calls to Young & Thompson at 703/521-2297. Telefax: 703/685-0573.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Date 1.02.2002

Citizenship: French

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Date 8/2/2002

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Full name of fourth joint inventor:  
(given name, family name)

Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_

Citizenship:

Residence: